

**This Page Is Inserted by IFW Operations  
and is not a part of the Official Record**

## **BEST AVAILABLE IMAGES**

**Defective images within this document are accurate representations of the original documents submitted by the applicant.**

**Defects in the images may include (but are not limited to):**

- **BLACK BORDERS**
- **TEXT CUT OFF AT TOP, BOTTOM OR SIDES**
- **FADED TEXT**
- **ILLEGIBLE TEXT**
- **SKEWED/SLANTED IMAGES**
- **COLORED PHOTOS**
- **BLACK OR VERY BLACK AND WHITE DARK PHOTOS**
- **GRAY SCALE DOCUMENTS**

**IMAGES ARE BEST AVAILABLE COPY.**

**As rescanning documents *will not* correct images,  
please do not report the images to the  
Image Problem Mailbox.**

Practitioner's Docket No. MI22-0981

PATENT

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: Warren M. Farnworth et al.

Application No.: 09/148,723 Group No.: 3729  
Filed: September 3, 1999 Examiner: D. Tugbang  
For: "Methods of Bonding Folder Balls to Bond Pads on a Substrate"

Commissioner for Patents and Trademarks  
Washington, D.C. 20231

ATTENTION: Refund Section, Accounting Division, Office of Finance

REQUEST FOR REFUND  
(IMPROPER CHARGE OF DEPOSIT ACCOUNT)

## I. RETURN OF REFUND REQUEST

This is a request for a refund, with respect to the debit to Deposit Account 23-0925, shown on the statement dated September 24, 2003 for the above-identified application.

A copy of the monthly statement, in which the error referred to occurs, accompanies this request.

A copy of the Express Declaration of Express Mailing, dated September 18, 2003, accompanies this request.

A copy of the Transmittal Form, dated September 18, 2003, accompanies this request.

A copy of pages 16-17 "Remarks" section of the Response to June 18, 2003 Office Action; and a copy of the Supplemental Information Disclosure Statement dated June 18, 2003, accompanies this request and Form 1449.

## CERTIFICATE OF MAILING/TRANSMISSION (37 C.F.R. 1.8(a))

I hereby certify that, on the date shown below, this correspondence is being:

MAILED

- ☐ deposited with the United States Postal Service with sufficient postage to first class mail in an envelope addressed to the Commissioner for Patents and Trademarks, Washington, D.C. 20231.

FACSIMILE

- ☒ transmitted by facsimile to the Patent and Trademark Office. 703-308-6778

Date:

26 Sept 2003

Signature



Rhonda G. Rambo

(type or print name of person certifying)

(Request for Debit (Improper Credit of Deposit Account)—page 1 of 2)

12 total pages

**II. FEES CHARGED FOR WHICH REFUND IS REQUESTED****AMOUNT OF  
REFUND  
REQUESTED**

Improper charge for Supplemental Information Disclosure Statement \$180.00

**TOTAL REFUND REQUESTED**

**\$180.00**

**III. EXPLANATION OF WHY CONTESTED CHARGE IS IN ERROR**

On September 18, 2003 we filed a response to the June 18, 2003 office action including a copy of the Supplemental Information Disclosure Statement dated June 18, 2003. This Supplemental IDS was submitted as a duplicate as no initialed copy of the PTO-1449 had been received from the Examiner.

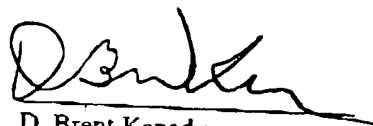
The Supplemental Information Disclosure Statement was filed before the mailing date of further examination under an RCE application filed on April 29, 2003. Therefore, no additional fees are believed to be required.

Please credit Deposit Account No. 23-0925 with the above fee amount.

**IV. MANNER OF REFUND**

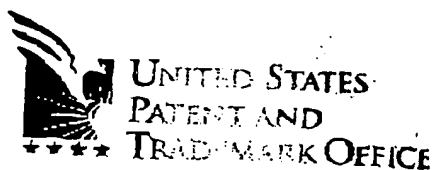
Please Credit Account No. 23-0925.

Date: 9-25-03



D. Brent Kenady  
Reg. No. 40,045  
Wells St. John P.S.  
601 West First Ave., Suite 1300  
Spokane, WA 99201-3828  
Tel. No.: (509) 624-4276  
Customer No.: 021567

(Request for Debit (Improper Credit of Deposit Account)—page 2 of 2)

**Deposit Account Statement**USPTO  
Home  
Page  
Finance  
Home  
Page

Requested Statement Month: September 2003  
Deposit Account Number: 230925  
Name: WELLS ST JOHN PS  
Attention: RHONDA RAMBO  
Address: 601 WEST FIRST AVENUE SUITE 1300  
City: SPOKANE  
State: WA  
Zip: 99201-3677

DATE	SEQ	POSTING REF	ATTORNEY DOCKET NBR	FEE CODE	AMT	BAL
09/04	4	0905031	005805/CSM/C	1251	\$110.00	\$10,128.00
09/05	11	PCT/US 2/29/55 AV1-092		1607	\$700.00	\$9,428.00
09/05	14	PAYMENT		0203	-\$6,000.00	\$15,428.00
09/08	1	09810007	M122-1559	1301	\$750.00	\$14,678.00
09/08	526	76419668	WI52-101	7003	\$200.00	\$14,478.00
09/09	1	10137900	UL4-004	2801	\$375.00	\$14,103.00
09/09	12	78237200	DA38-102	7001	\$670.00	\$13,433.00
09/09	524	09549800		8007	\$20.00	\$13,413.00
09/10	780	78031000	AD19-108	7004	\$150.00	\$13,263.00
09/11	37	SUBSIDIARY		8001	\$3.00	\$13,260.00
09/11	99	10071450	MI22-1921	1252	\$410.00	\$12,850.00
09/11	140	10658500	MI22-2231	8021	\$40.00	\$12,810.00
09/11	461	78288000	GO2-112	7001	\$1,675.00	\$11,135.00
09/12	6	10137900	MA64-041	1251	\$110.00	\$11,025.00
09/15	13	60320000		9204	-\$445.00	\$11,470.00
09/16	2	10137900	MA64-041	1251	-\$110.00	\$11,580.00
09/16	3	10137900	MA64-041	1814	\$110.00	\$11,470.00
09/17	44	65769900		1811	\$100.00	\$11,370.00
09/22	111	76371490	PO4-1173	7004	\$150.00	\$11,220.00
09/22	134	76371490	PO4-1174	7004	\$150.00	\$11,070.00
09/22	144	76371490	PO4-1175	7004	\$150.00	\$10,920.00
09/22	157	76174770	PO4-1144	7004	\$150.00	\$10,770.00
09/22	176	76268885	PO4-1154	7004	\$150.00	\$10,620.00
09/22	187	76268885	PO4-1155	7004	\$150.00	\$10,470.00
09/22	204	76268885	PO4-1156	7004	\$150.00	\$10,320.00
09/22	213	76238300	PO4-1151	7004	\$150.00	\$10,170.00
09/22	373	2116417	PO4-188	7205	\$100.00	\$10,070.00
09/22	374	2116417	PO4-188	7208	\$200.00	\$9,870.00
09/22	416	2116410	PO4-189	7205	\$100.00	\$9,770.00
09/22	417	2116410	PO4-189	7208	\$200.00	\$9,570.00
09/22	503	1821557	PE23-101	7205	\$100.00	\$9,470.00

09/22 504 18210-7	PE23-101	7201	\$400.00	\$9,070.00
09/23 1 P107000		1460	\$130.00	\$8,940.00
09/23 4 PAYMENT		9203	-\$6,000.00	\$14,940.00
09/23 998 763550-10	TH2-126	7003	\$100.00	\$14,840.00
09/23 1058 76412965	MC80-102	7003	\$100.00	\$14,740.00
09/24 1 P107000		1460	-\$130.00	\$14,870.00
09/24 2 P107000		1460	\$130.00	\$14,740.00
09/24 148 08148700	MI22-981	1806	\$180.00	\$14,560.00
09/24 488 783044-2	KE2-147	7001	\$335.00	\$14,225.00
09/24 500 783044-50	JD2-101	7001	\$335.00	\$13,890.00
09/24 1028 76194846	FA13-114	7003	\$100.00	\$13,790.00
09/25 32 SUBSCRIPTION		8001	\$3.00	\$13,787.00
09/25 850 1787000	EN9-101	7205	\$100.00	\$13,687.00
09/25 851 1787000	EN9-101	7201	\$400.00	\$13,287.00
09/26 51 6450000		1811	-\$100.00	\$13,387.00
09/26 360 783088-01	FO35-101	7001	\$335.00	\$13,052.00

START	SUM OF	SUM OF	END
BALANCE	CHARGES	REPLENISH	BALANCE
\$10,238.00	\$9,971.00	\$12,785.00	\$13,052.00

[Need Help?](#) | [Return to USPTO Home Page](#) | [Return to Office of Finance Home Page](#)

EV 318282279

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICATION SERIAL NO. 09/148,723  
 FILING DATE September 3, 1998  
 INVENTORSHIP Warren M. Farnworth et al.  
 ASSIGNEE Micron Technology, Inc.  
 GROUP ART UNIT 3729  
 EXAMINER D. Tugbang  
 ATTORNEY'S DOCKET NO. MI22-981  
 TITLE: Methods of Bonding Solder Balls to Bond Pads on a Substrate

EX POST DECLARATION OF EXPRESS MAILING

I hereby declare that I have deposited the below-listed papers with the United States Postal Service "Express Mail Post Office to Addressee" service, addressed and posted as indicated below, in compliance with 37 CFR 1.10. The Express Mail label No. has been placed on one or more of the papers listed.

Express Mail Number: EV 318282279 USDate of Deposit: September 18, 2003Time of Deposit: 4:37

Deposited by: ☒ Delivery to Postal Employee  
☐ Placed in Drop Box

Address: Mail Stop Non-Fec Amendment  
Commissioner For Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Place of Deposit:

☐ U.S. Post Office (Paulsen Station Bldg)  
 421 West Riverside, Room 200  
 Spokane, Washington 99201  
 Last Scheduled Drop Box Pickup: 4:40 pm

☒ U.S. Post Office (Riverside Station)  
 904 West Riverside  
 Spokane, Washington 99201  
 Last Scheduled Drop Box Pickup: 5:00 pm

☐ U.S. Post Office (Terminal Annex)  
 703 East Trent  
 Spokane, Washington 99202  
 Last Scheduled Drop Box Pickup: 9:30 pm

☐ U.S. Post Office \_\_\_\_\_ Branch  
 Last Scheduled Drop Box Pickup: \_\_\_\_\_ am/pm

Listing Of Items Enclosed in Mailing:

1. PTO Return Receipt Enclosed
2. Transmittal Form
3. Response to June 18, 2004 Office Action.

I hereby declare that the statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statement may jeopardize the validity of the application or any patent issued therefrom.

Dated this 18 day of September, 2003 at Spokane, Washington.

Rhonda Farnbo  
 Rhonda Farnbo

DBK/ris

COPY

EV318 82279

Approved for use through 07/31/2006. OMB 0651-0031  
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE  
Under the Paperwork Reduction Project, 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

<b>TRANSMITTAL FORM</b> (to be used for all correspondence after initial filing)	Application Number	09/148,723	
	Filing Date	September 3, 1998	
	First Named Inventor	Warren M. Farnworth	
	An Unit	3729	
	Examiner Name	A.D. Tugbang	
Total Number of Pages in This Submission	15	Attorney Docket Number	MI22-981

ENCLOSURES (Check all that apply)		
<input type="checkbox"/> Fee Transmittal Form	<input type="checkbox"/> Drawing(s)	<input type="checkbox"/> After Allowance communication to Group
<input type="checkbox"/> Fee Attached	<input type="checkbox"/> Licensing-related Paper	<input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences
<input checked="" type="checkbox"/> Amendment/Reply	<input type="checkbox"/> Petition	<input type="checkbox"/> Appeal Communication to Group (Appeal Notice, Brief, Reply Brief)
<input type="checkbox"/> After Final	<input type="checkbox"/> Petition to Convert to a Provisional Application	<input type="checkbox"/> Proprietary Information
<input type="checkbox"/> Affidavits/declarations	<input type="checkbox"/> Power of Attorney, Renunciation	<input type="checkbox"/> Status Letter
<input type="checkbox"/> Extension of Time Request	<input type="checkbox"/> Change of Correspondence Address	<input checked="" type="checkbox"/> Other Enclosure(s) (please identify below):
<input type="checkbox"/> Express Abandonment Request	<input type="checkbox"/> Terminal Disclaimer	Postcard
<input type="checkbox"/> Information Disclosure Statement	<input type="checkbox"/> Request for Refund	
<input type="checkbox"/> Certified Copy of Priority Document(s)	<input type="checkbox"/> CD, Number of CD(s)	
<input type="checkbox"/> Response to Missing Part of Incomplete Application	<b>NO FEES REQUIRED/NO ADDITIONAL CLAIMS ETC.</b>	
<input type="checkbox"/> Response to Missing Part under 37 CFR 1.52 or 1.53	The Commissioner is hereby authorized to charge any additional fees required under 37 CFR Sections 1.16 and 1.17 and credit any overpayments to: 23-0925.	

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm or Individual name	D. Brent Kennedy - Reg. No. 40,045
Signature	Wells St. John P.S. - Customer No. 021567
Date	9-18-98

**CERTIFICATE OF TRANSMISSION/MAILING**

I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below.

Typed or printed name	WELLS EXPRESS MAIL		
Signature		Date	

This collection of information is required by 37 CFR 1.5. The information is required to obtain or maintain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is provided by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete the form and/or suggestions for reducing this burden should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

COPY

EV 318242279

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application Serial No. .... 09/148,723  
Filing Date ..... September 3, 1998  
Inventor ..... Warren M. Farnworth et al.  
Assignee ..... Micron Technology, Inc.  
Group Art Unit ..... 3729  
Examiner ..... A.D. Tugbang  
Attorney's Docket No. .... MI22-981  
Title: Methods of Drilling Solder Balls to Bond Pads on a Substrate

RESPONSE TO JUNE 18, 2003 OFFICE ACTION

To: Mail Stop Non-Fee Amendment  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

From: D. Brent Kanady  
Tel. 509-524-4276; Fax 509-838-3424  
Wells St. John P.S.  
601 West First Avenue, Suite 1300  
Spokane, WA 99201-3828

Responsive to the Office Action dated June 18, 2003, Applicant amends and remarks as follows:

AMENDMENTS

Underlines indicate insertions and strikeouts indicate deletions.

COPY



**REMARKS**

Claims 1-3, 5, 8, 11, 13, 20, 22, 23, 26, 27, 30, 31, 36, 37, 45, and 48-53 remain in the application. Reconsideration of the application in view of the amendments and the remarks is requested.

Claims 1, 2, 23, 25, 27, 30, 31, 36, 37, 45, and 48-53 are allowed.

Claims 3, 6, 9, 10, 13, 20, and 22 stand provisionally rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over Claims 6, 8, 11, 12, 18 and 20 of U.S. Patent Application Serial No. 10/004,172 and in view of WO 93/12738. However, this is an inappropriate double patenting rejection as Serial No. 10/004,172 is a divisional application of the present application, Serial No. 09/148,723, wherein Serial No. 10/004,172 was divided out from the present application (Serial No. 09/148,723) because of a restriction requirement of the Patent Office in the present application.

The Examiner is respectfully reminded, pursuant to 35 USC §121, "[a] patent issuing on an application with respect to which a requirement for restriction under this section has been made, or on an application filed as a result of such a requirement, shall not be used as a reference [] in the Patent and Trademark Office." *see also*, MPEP §304.01 (8<sup>th</sup> Ed.). The present application is the parent application of divisional Application Serial No. 10/004,172 wherein the present application was presented with a restriction requirement by the Patent and Trademark Office at paper no. 5, and divisional Application Serial No. 10/004,172 is a result of that restriction. Accordingly, pursuant to the above

**COPY**

authority, U.S. Patent Application Serial No. 10/004,172 can not be used as a reference for the obviousness-type double patenting rejection against the present application. Therefore, the obviousness-type double patenting rejection is inappropriate and should be withdrawn.

Since no other rejections are presented against claims 3, 6, 8, 11, 13, 20, and 22, the claims are allowable.

Further, Applicant herewith submits a duplicate copy of the Information Disclosure Statement and Form PTO-1449 filed together in this application on June 18, 2003. No initialed copy of the PTO-1449 has been received back from the Examiner. To the extent that the submitted references listed on the Form PTO-1449 have not already been considered, and the Form PTO-1449 has not been initialed with a copy being returned to Applicant, such examination and initialing is requested at this time, as well as return of a copy of the initialed Form PTO-1449 to the undersigned.


This application is now believed to be in immediate condition for allowance, and action to that end is respectfully requested. If the Examiner's next anticipated action is to be anything other than a Notice of Allowance, the undersigned respectfully requests a telephone interview prior to issuance of any

**COPY**

such subsequent action.

Respectfully submitted,

Dated: 9-18-03

By:   
D. Brent Kenady  
Reg. No. 40,045

**COPY**

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application Serial No. .... 09/148,723  
Filing Date ..... September 3, 1998  
Inventor ..... Warren M. Farnworth et al.  
Assignee ..... Micron Technology, Inc.  
Group Art Unit ..... 3729  
Examiner ..... D. Tugbang  
Attorney's Docking No. .... MI22-981  
Title: Methods of Bonding Solder Balls To Bond Pads on a Substrate

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

References- - See attached Form PTO-1449

In compliance with 37 C.F.R. §§ 1.56, 1.97 and 1.98, your attention is directed to the reference listed on the attached Form PTO-1449. No admission is made regarding whether the submitted reference is prior art.


This Supplemental Information Disclosure Statement is being filed before the mailing date of further examination after an RFE application filed on April 29, 2003. Therefore, no fee is believed to be required. However, in the event that a fee is required for filing this Supplemental Information Disclosure Statement, please charge the fee specified under 37 C.F.R. § 1.17(p) to Deposit Account No. 23-0925.

Citation of this reference is respectfully requested.

Respectfully submitted,

**COPY**

Date: 6-18-03

  
D. Brent Kenady  
Reg. No. 40,045  
Wells St. John P.S.  
601 W. First Avenue, Suite 1300  
Spokane, WA 99201-3828  
(509) 624-4276

**COPY**

Form PTO-1449		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO. N122931		SERIAL NO. 09/148,323	
LIST OF ARTS CITED BY APPLICANT <small>(See several sheets if necessary)</small>				APPLICANT Walter M. Farnsworth et al			
				FILING DATE September 3, 1991		GROUP 3729	
U.S. PATENT DOCUMENTS							
Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						
FOREIGN PATENT DOCUMENTS							
		Document Number	Date	Name	Class	Subclass	Translation
							Yes No
		<del>WO 98/12738</del>	<del>3/20/98</del>				
		ANI					
		AP					
OTHER REFERENCES (including paper, thesis, pertinent pages, etc.)							
	AQ			See IDS, Paper No. 41			
	AR			(WO 98/12738			
	AS			considered in PTO-1449			
	AT			Form of Paper No 41)			
EXAMINER		<i>A. R. Dwyer</i>		DATE COMPLETED 12/10/03			
*EXAMINER. Initial if reference considered. Number of citation is in conformance with PAPER NO. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.							

COPY